

SPECIFICATION FOR APPROVAL

CUSTOMER: JAMES

PART NO: 189982

MODEL NO: DDU150050

DESIGNED NO: E3031 RoHS

REVISION: 1-4

CATEGORY: EI-48 ADAPTOR

DATE SUBMITTED: 2022.09.20

SAMPLE SUBMITTED SAMPLE 0 SPECIFICATION 1	CONCLUSION		APPROVED
			REJECTED
			CONDITION APP'D

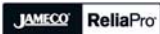
CUSTOMER'S SIGNATURE:

浩源實業有限公司
HAWK'S AIM INDUSTRIAL CO., LTD.
高雄市前鎮區新衙路 286-8 號 5F-2
5F-2, No. 286-8, Shin-Ya Road, Chien-Chen
District, Kaohsiung, Taiwan 806
Tel: 07-8418448 Fax: 07-8419997

MODEL NO: DDU150050
CUSTOMER P/N: 189982
DESCRIPTION: EI-48 ADAPTOR
ISSUED DATE: 2022.09.20
REVISION: 1-4

TABLE OF CONTENTS

- 1.0 ELECTRICAL CHARACTERISTIC
- 2.0 MECHANICAL PERFORMANCE
- 3.0 SAFETY STANDARD
- 4.0 APPEARANCE REQUIREMENTS
- 5.0 ENVIRONMENTAL CONDITION
- 6.0 INSPECTION ON LINE
- 7.0 NET WEIGHT
- 8.0 APPEARANCE DIMENSION
- 9.0 MATERIAL LIST
- 10.0 NAMEPLATE DRAWING

REV	DESCRIPTION	DATE
1-0	INITIAL RELEASED	2003.05.21
1-1	CHANGE NAMEPLATE & BOX 	2004.12.02
1-2	CHANGE CASS CAUTION	2009.05.05
1-3	RoHS	2013.09.01
1-4	CHANGE EI-48 ADAPTOR	2022.09.20

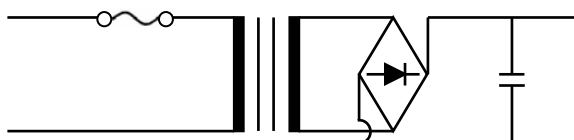
APP.BY _____

CHK.BY _____

PRE.BY _____

1.0 ELECTRICAL CHARACTERISTIC:

- 1.1 INPUT RATED VOLTAGE AND LINE FREQUENCY: 120 VAC 60 Hz.
- 1.2 INPUT EXCITING CURRENT (I_o): 90 mA RMS MAX. AT INPUT 120 VAC 60 Hz.
- 1.3 INPUT LOAD CURRENT (I_P): 180 mA RMS MAX. INPUT 120 VAC 60 Hz OUTPUT FULL LOAD.
- 1.4 EMPTY LOSS: X W MAX, AT INPUT X VAC X Hz.
- 1.5 ELECTRICAL CIRCUIT:



1.6 OUTPUT RATED VOLTAGE AND CURRENT:

TEST POINT	FULL LOAD RATED VOLTAGE	RATED CURRENT	RIPPLE VOLTAGE V _{p-p}	NO LOAD VOLTAGE
	15VDC±5%	500mA	mV MAX.	20VDC±5%

- 1.7 D.C.RESISTANCE:PRIMARY X Ω±5%, MEASURED AT 25°C AMBIENT TEMPERATURE.
- 1.8 HI-POT TEST: 1240 VAC 50/60HZ FOR 60 SECONDS BETWEEN INPUT TO OUTPUT PLUG AND CASE NORMAL PERFORMANCE. (LEAKAGE CURRENT 1mA)
- 1.9 INSULATION RESISTANCE TEST: 500 VDC SUPPLIED, 100 MΩ MIN, BETWEEN INPUT TO OUTPUT PLUG AND CASE.
- 1.10 TEMPERATURE RISE TEST: INPUT 120 VAC 60 Hz, OUTPUT LOAD 0.5 A FOR INPUT COIL 75 °C MAX (BY USE RESISTANCE METHOD) ON CASE SURFACE X °C MAX (BY USE THERMOMETER METHOD) AT 25°C AMBIENT TEMPERATURE.
- 1.11 HUMIDITY TEST: IN AN AMBIENT TEMPERATURE 40±2 °C AND 90-95 % R.H FOR 4 HOURS, AFTER 10 MINUTES OUT OF THE OVEN, THE UNIT SHOULD MEET ITEM 1.8 REQUIREMENTS, AND INSULATION RESISTANCE SHALL BE 10M OHMS MIN.

2.0 MECHANICAL PERFORMANCE:

- 2.1 STRAIN RELIEF TEST: AT NORMAL POSITION, 20 LBS TO OUTPUT CORD FOR 60 SECONDS EACH, THERE SHALL BE NO BREAKAGE DISPLACEMENT.
- 2.2 DROP TEST: DROPPED FREELY FROM 3 FEET HEIGHT ONTO A CONCRETE FLOOR COVERED WITH 1/8 INCH VINYL TILE 3 TIMES FROM 3 DIFFERENT SURFACE THE UNIT SHOULD MEET THE ITEM 1.8、1.9.

APP.BY _____

CHK.BY _____

PRE.BY _____

- 2.3 BENDING TEST: THE PLUG AND S/R SHOULD WITHSTAND WEIGHT OF 200 GRAM, IT SWINGING FROM LEFT TO RIGHT AT AN ANGLE OF 120 DEGREE FOR 300 CYCLES, AND 15-20 CYCLES PER MINUTE, THE CORD SHALL BE CONDUCTIBLE.

3.0 SAFETY STANDARD:

☒UL/CUL ☐GS ☐CE ☐PSE ☐BSMI

4.0 APPEARANCE REQUIREMENTS:

- 4.1 APPEARANCE: DAMAGE AND RUSTING ARE NOT PERMITTED.

5.0 ENVIRONMENTAL CONDITION:

- 5.1 OPERATING TEMPERATURE RANGE: -10°C ----- +40°C
5.2 STORAGE TEMPERATURE RANGE: -20°C ----- +55°C
5.3 OPERATING HUMIDITY RANGE: 30-85% R.H.

6.0 INSPECTION ON LINE:

- 6.1 THE TEST ITEMS FOR EACH PRODUCE.

◇ PRIMARY EXCITING CURRENT
◇ CORE LOSS
◇ OUTPUT VOLTAGE
◇ INPUT CURRENT AND POWER AT RATED LOAD
◇ FOREIGN MASS BY SHOCK
◇ POLARITY OF OUTPUT PLUG
◇ HI-POT TEST
◇ APPERANCE

- 6.2 THE TEST ITEM FOR PART OF PRODUCTS.

◇ HUM OPERATING AT RATED LOAD
◇ D.C.RESISTANCE
◇ INSULATION TEST

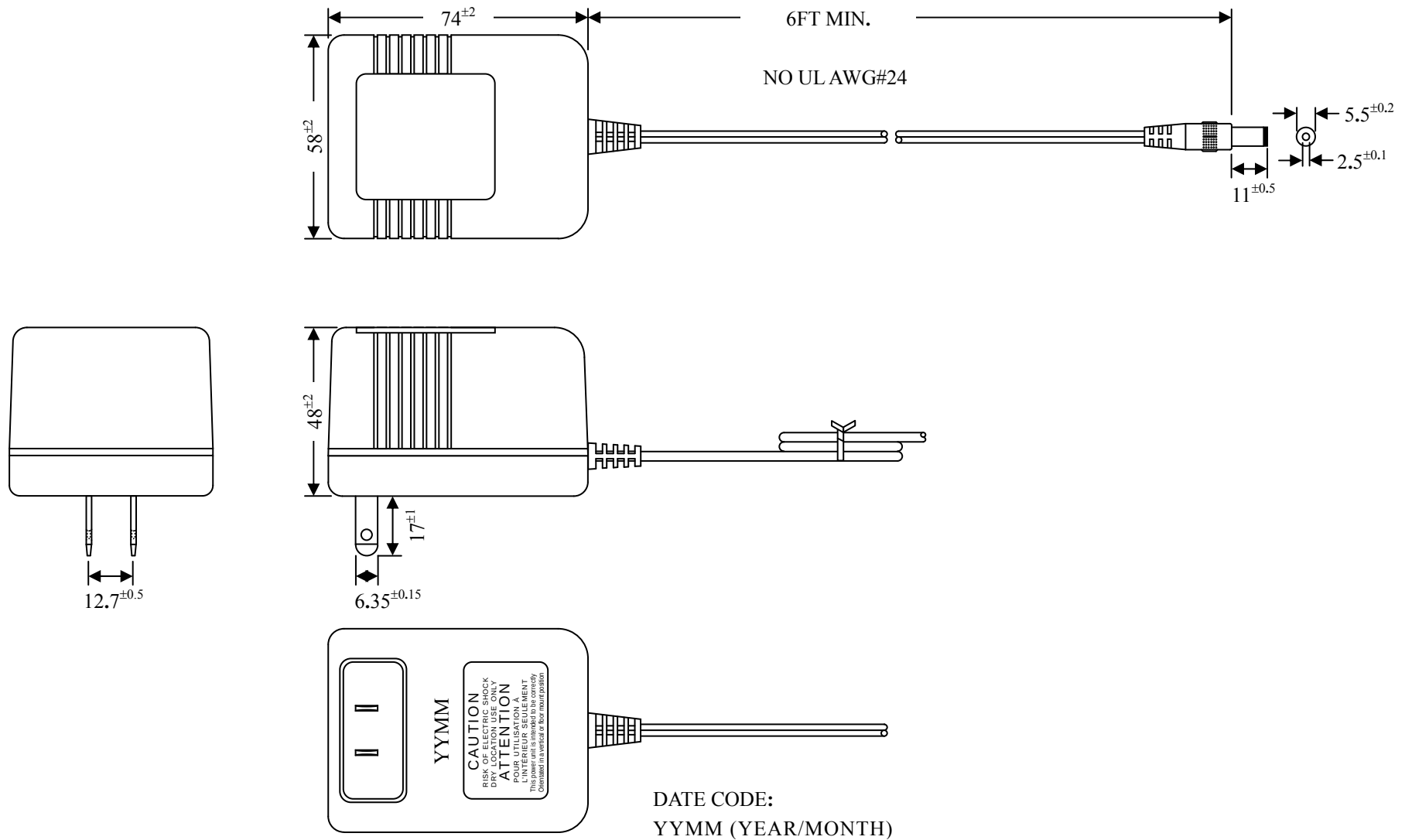
7.0 NET WEIGHT: X g

APP.BY _____

CHK.BY _____

PRE.BY _____

8.0 APPEARANCE DIMENSIONS: (UNIT:mm)

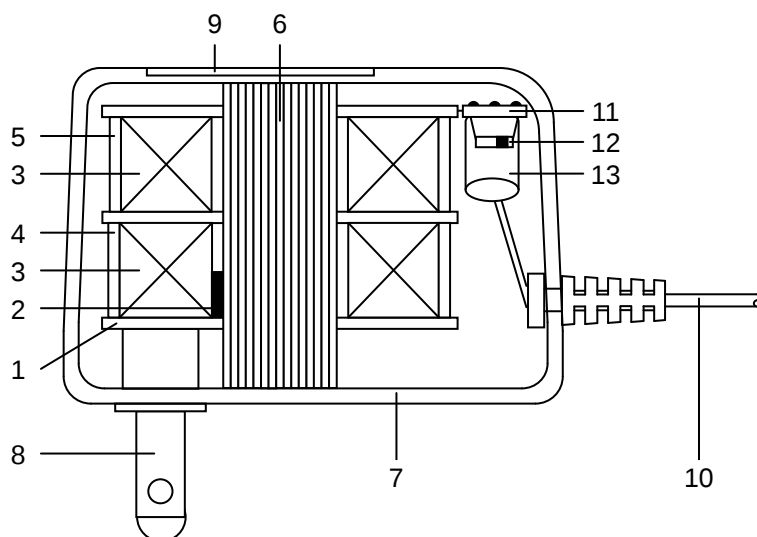


APP.BY _____

CHK.BY _____

PRE.BY _____

9.0 MATERIAL LIST:



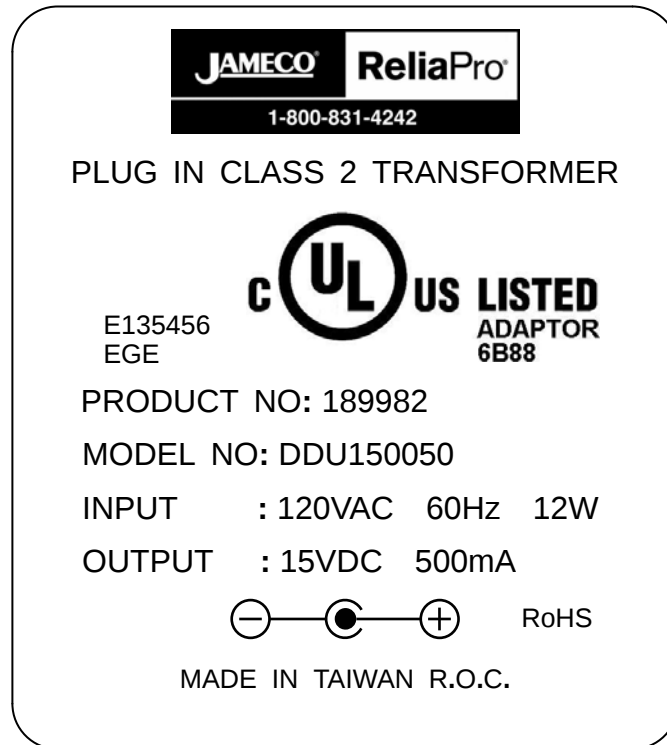
NO.	DESCRIPTION	MATERIAL	SPEC. & Q'TY	MANUFACTURE
1	BOBBIN	70G33L(E41938)		EAST TUNG JUNG PLASTIC HARDWARE CO., LTD. HWA YUE LTD.
2	THERMAL CUTOFF	L20 (E142267) A2-F(E140847)	115°C 115°C	JOINT FORCE METAL RESEARCH & CO.,LTD. AUPO ELECTRONICS LTD.
3	ENAMELED WIRE	POLYURETHANE ENAMELED COPPER WIRE(E85640(S))		FENG CHING METAL CORP. TAI-L ELECTRIC WIRE & CABLE CO., LTD.
4	PRIMARY OUTER WARP	POLYESTER FILM TAPE (E81174(S))	0.05mm(4T)	QUN YI TAPE (DONGGUAN) CO., LTD. CHYUN YIH TAPE CO., LTD.
5	SECONDARY OUTER WRAP	POLYESTER FILM TAPE (E81174(S))	0.025mm(2T)	QUN YI TAPE (DONGGUAN) CO., LTD. CHYUN YIH TAPE CO., LTD.
6	CORE	SILICON STEEL	0.5mm	SHENZHEN CHUNYUAN STEEL INDUSTIAL CO., LTD.
7	ENCLOSURE	NORYL SE100X (E161723)		SABIC INNOVATIVE PLASTICS CHINA CO., LTD.
8	PRIMARY BLADES	NICKEL PLATING		SPREAD PROFIT ELECTRONIC (DONG GUAN) CO., LTD.
9	NAMEPLATE	PLASTIC FILM	0.2mm	GUANG MING YOU TONG PRINTING FACTORY
10	OUTPUT CORD	FLEXIBLE CORD	AWG#24 NO UL	HUAN WEI ENTERPRISE CO., LTD. MING SHENG ENTERPRISE CO., LTD.
11	RECTIFIER BOARD	P.C.B.(E105119)	94V-0	CHIH HSIEN ENTERPRISE CO., LTD.
12	DIODES	1N4001---5		MASTER INSTRUMENT CORPORATION SHANGHAI LTD.
13	CAPACITOR	1000uf/25V		FUH YIN ELECTRONICS CO., LTD.

APP.BY _____

CHK.BY _____

PRE.BY _____

10.0 NAMEPLATE DRAWING: (UNIT:mm)



- 1.MATERIAL:Plastic Film
- 2.THICKMESS:0.2
- 3.PRINTING:WORD:BLACK / BACKGROUND: SILVER

APP.BY _____

CHK.BY _____

PRE.BY _____